

Aromatic Hybrid Rice: A New Revolution in Rice Production

Why new aromatic hybrid variety?

- ⇒ Low yield potentiality of the traditional small grained photosensitive aromatic rice varieties.
- ⇒ Lack of short duration long grained high yielding aromatic rice variety in the country.
- ⇒ Enhancement of total aromatic rice production utilizing minimum land area for meeting up the ever increasing domestic need
- ⇒ Export potentiality of aromatic rice.

What are the main features?

- ⇒ Long grained having aroma suitable for Aman season
- ⇒ Short growth duration (112-115days)
- ⇒ Well adjustable with the "Boro - Aman- Rabi crops" cropping pattern
- ⇒ Erect plant type having non lodging habit
- ⇒ High yield potentiality (5,5 t/ha)

What are the economic feasibilities?

- ⇒ Having the characteristics of export potentiality
- ⇒ Provision of employment facility for production of commercial hybrid seed
- ⇒ Economically profitable for the farmers



Field view of Quashi aromatic hybrid 1



Quashi aromatic hybrid 1 with Check variety (at flowering and maturity stage)



Quashi aromatic hybrid 1 (grain)

Where the variety developed?

Department of Genetics and Plant Breeding,

Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU) in collaboration with the Genetic Resources and Seed Division, Bangladesh Rice Research Institute (BRRI), Gazipur

How the variety developed?

The aromatic hybrid rice variety has been developed using three lines viz., CMS line (A-line), maintainer line (B-line) and restorer line (R-line). All the three component lines have been identified and are being maintained in the department of Genetics and Plant Breeding, BSMRAU, Gazipur for future use.



Field view on seed production of component lines



Maintenance of component lines

What will be the future activities?

- ⇒ Formal approval of the variety by the National Seed Board for commercial cultivation
- ⇒ Maintenance and seed increase of the component lines (A, B and R lines)
- ⇒ Enhancement of commercial hybrid seed production

Who will be the beneficiaries?

- ⇒ Aromatic rice growers, consumers and finally the nations.

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SPGR sub project: "Genetic enhancement of local rice germplasm towards aromatic hybrid rice variety development in Bangladesh"

